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July 16, 1990

Meeting Minutes Transmittal/Approval
Unit Managers Meeting: 100-HR-1/HR-3/DR-1 Operable Unit
450 Hills Street, Room 47, Richland Washington
June 13, 1990

From/ Appvl. James D. Goodenough Date: 18 July 1990
James D. Goodenough, 100-HR-1 Unit Manager, DOE-RL (A6-95)

Appvl. K. Michael Thompson Date: 7/18/90
K. Michael Thompson, 100-HR-3 Unit Manager, DOE-RL (A6-95)

Appvl.: Larry Goldstein Date: 7/18/90
Larry Goldstein, 100-HR-1 Unit Manager, WA Department of Ecology

Appvl.: Charles S. Cline Date: 7/18/90
Charles S. Cline, 100-HR-3 Unit Manager, WA Department of Ecology

Appvl.: Douglas R. Sherwood Date: 7/27/90
Douglas R. Sherwood, 100-HR-1, 100-HR-3 Unit Manager, EPA (A7-70)

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements;
- Attachment #2 - Agenda for the Meeting;
- Attachment #3 - Attendance List;
- Attachment #4 - Commitments/Agreements Status List.

Prepared by: Doug Fassett Date: 7/18/90
SWEC Support Services

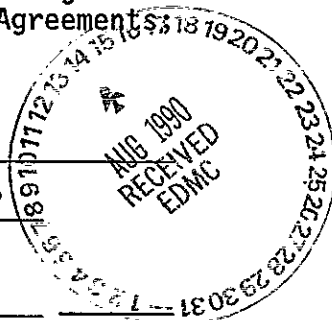
Concurrence by: Alan D. Krug Date: 7/18/90
WHC HR-1 RI Coordinator

Concurrence by: F. V. Roach Date: 7/18/90
WHC HR-3 RI Coordinator

Concurrence by: Merl Lauterbach Date: 7/18/90
WHC DR-1 RI Coordinator

Distribution:

Donna Lacombe, PRC	Ronald D. Izatt (A6-95)
Ward Staubitz, USGS	Director, DOE-RL, ERD
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Russell Fitzpatrick SWEC (A4-35)	Director, DOE-RL, WMD
Kaerae Parnell WHC (H4-18)	Roger D. Freeberg (A6-95)
Tom Wintczak, WHC (B2-15)	Chief, Rstr. Br., DOE-RL/ERD
Merl Adams, WHC (H4-55)	Steven H. Wisness
Alan Krug, WHC (H4-55)	Tri-Party Agreement, Proj Mgr
Merl Lauterbach, WHC (H4-55)	Richard D. Wojtasek (B2-15)
Fred Roeck, WHC (H4-55)	Prgm. Mgr. WHC
ADMINISTRATIVE RECORD (100-HR-1, 100-HR-3, 100-DR-1) [Care of Susan Wray, WHC (H4-51C)]	



Attachment #1

Meeting Summary and Summary of Commitments and Agreements 100-HR-1/100-HR-3/100-DR-1 Operable Unit Managers Meeting 450 Hills Street, Room 47 June 13, 1990

Meeting Summary/Summary of Commitments and Agreements

1. A discussion was held concerning the current groundwater strategy (HR-3). An inventory of existing wells, to include all pertinent information about the well, is being compiled. The current wells that are identified in the work plan are reasonable to define *gross contamination plumes*, the flow patterns through the region, and to *fill in gaps in coverage of groundwater conditions*.
2. The *Hanford site wide monitoring wells* are currently sampled semi-annually, for water levels and some contaminant concentrations. Water levels provide important information about the gradient and flow patterns. Increasing the sampling frequency of these wells to provide more data is being considered. The wells will also be assessed as to their fitness for use to *support remedial investigations*. This will be done under the Data Compilation Task.
3. *During periods of high river levels, the water table gradient near the river is temporarily reversed. That is, water temporarily flows inland, in the opposite direction of the normal direction of groundwater flow, which is towards the river. At the 100-H Area, this reversed flow may extend inland as much as 500 feet. The change in water levels in wells, due to fluctuating river levels, apparently remobilizes contaminants stored in the soil column near the 183-H basins. Near the river, the influx of river water during periods of high river levels apparently causes a dilution of the groundwater that is flowing towards the river.*
4. The D areas wells are currently part of a site wide network. The H area wells are part of the RCRA well monitoring program. Ten are sampled quarterly, all are sampled yearly, and one is capped. There are 5 older wells, and the remaining 18 are constructed to RCRA standards.
5. *Groundwater flow at the top of the unconfined aquifer (i.e. water table) within the 100-HR-3 operable unit flows in a generally northeast direction. Along the river banks, the net flow is into the river, since the river acts as a local discharge area for the unconfined aquifer. During periods of high river level, river water temporarily flows into the banks, perhaps inland as far as 500 to 1000 feet. As the river level drops, this water drains back into the river. The phenomenon is referred to as "bank storage", and supplements the net flow of groundwater to the river.*

6. *Experiments were conducted by Battelle in the 1960's to investigate the disposal of reactor coolant water to the soil column in the 100 Areas. Data on water levels and temperature were collected from numerous wells surrounding the mound created at the disposal site. The results are described in several published reports, and provide insight on the dissipation of groundwater "mounds" created by the disposal of large volumes of liquids.*
7. *In an agreement with EPA/Ecology, the approach and current information going into the HR-3 work plan appeared acceptable [and the work plan could be finalized accordingly]*. In this regard, it was agreed to postpone the bi-weekly meetings.*

Action # HR1.19: *EPA/Ecology will be provided with the component of the work plan that concerns interim measures, before the final version of the work plan., Action: Alan Krug*

8. *The boundary of HR-3 has been revised to exclude a portion of the N area. No source units are involved, and there was no disagreement.*
9. *Concerning U.S. DOE comments on the 100-DR-1 workplan, Ecology received the comments on June 11. They will need at least two weeks to review them. They will have the comments back at least by the July UMM. The current date of July 30 for submittal of a final draft version of the work plan to Ecology for approval seems unreasonable. Ecology will respond by June 15, 1990 concerning an extension of the submittal to at least August 15, 1990. However, Ecology requested that DR-1 be submitted as close to July 30 as possible, regardless of the due date.*
10. *A preliminary proposal was presented for a revision of the current version of the radiation survey. The current rad survey being performed at 300 FF-1, is a sort of micro survey, that is very costly and time consuming. The WHC plan for "Facility Release Survey Methods," calls for such detailed procedure.. A proposal was presented for an Environmental Radiation Survey. The purpose of the survey would be to look for areas rather than single point sources. The new method references DOE order 5400.5. The survey would be a three phased approach. Phase I, would include an initial site screening, along transects, and mark areas for further investigation. Phase II would be a detailed survey in the areas identified in Phase I. Phase III would incorporate any new areas into the work plan. This method is proposed as a general screening method, not for 100% coverage. This sampling plan is the equivalent of random (or systematic) sampling. Ecology was requested for permission to allow a change to the work plan to outline this new procedure, and reference an [as yet]* unwritten EII that would cover this type of radiation survey. Ecology will not approve a change to the work plan until they have evaluated a formal request to do so, and the full description of the proposed procedure.*

** These items were proposed to be deleted by L. Goldstein.*

Action: Provide copies of DOE Order 5400.5, and the 300-FF-1 surveillance report of Surface radiation Surveys to EPA/Ecology. Action: Bob Stewart. *Transmitted as requested on June 14, 1990. This item has been transferred to General Topics, Item #GT.56*

11. A discussion was held concerning Ecology *programmatic* comments on the HR-1 work plan. All comments were resolved.

Action #HR1.20: To explore schedule and events for a site tour for Ecology, tentatively scheduled for July 19, 1990. Action Jim Goodenough

12. It was agreed that the schedule for DR-1 will be slipped, but the work plans for HR-1 and HR-3 *will be submitted as soon as possible, unless they are impacted by the DR-1 comments.*
13. The question of leachability testing *during the HR1 RI* was discussed. [The regulators would like a procedure *developed* for leachability testing if it is required.]* It was agreed the work plan will be revised to include language requiring leachability tests on contaminated soils and sediments during Phase II of the RI. A general discussion on the criteria, procedures and methodology will be included in the work plan and FSP as appropriate.

* This item was proposed to be deleted by L. Goldstein.,

Attachment #2

Attendance List 100-HR-1/HR-3/DR-1 Unit Managers Meeting June 13, 1990

Name	Organization	Responsibility	Phone
D. Sherwood	EPA	Unit Manager	509-376-9529
C.S. Cline	WDOE	Unit Manager, 100-HR-3	206-438-7556
S. Cross	WDOE		206-459-6675
L. Goldstein	WDOE	Unit Mgr. 100-HR-1, DR-1	206-438-7018
J.D. Goodenough	DOE-RL/ERD	Unit Manager, 100-HR-1	509-376-7087
Paul Pak	DOE-RL	Unit Manager	509-376-4798
K. Taylor	DOE-RL		509-376-7277
D. Fassett	SWEC	GSSC for DOE/RL	509-376-9969
R. Fitzpatrick	SWEC	GSSC for DOE/RL	509-376-3502
W. Staubitz	USGS	EPA Consultant	206-593-6510
B. Drost	USGS	EPA Consultant	206-593-6510
J. Shuster	PRC	EPA Consultant	206-624-2692
D. Lacombe	PRC	EPA Consultant	206-624-2692
A.D. Krug	WHC	100-HR-1	509-376-5634
Steve Weiss	WHC	100-DR-1	509-376-1683
Bob Peterson	WHC	Geosciences	509-376-5858
J. Ayres	WHC		509-376-3918
M. Hagood	WHC	Geosciences	509-376-9664
M. Lauterbach	WHC		509-376-5257
John Raymond	PNL	Geosciences	509-376-7417
Lloyd Ames	PNL	Geosciences	509-376-2242

Attachment #3

**Commitments/Agreements Status List
100-HR-1/HR-3/DR-1 Operable Unit
June 13, 1990**

Item No.	Action	Status
HR1.14	WHC will respond to programmatic comments following receipt of the 100-HR-3 comments. Action: A.D. Krug and F.V. Roeck.	Closed.
HR3.1	WHC will prepare a letter for DOE transmittal to Ecology that brings the HR-1, HR-3 and, DR-1 schedules into parallel, with a common start date. This action will allow the 60-day response to start with return of Ecology/EPA comments to the 100-DR-1 Work Plan. Concurrence by Ecology will implement the above action. Action: Merl Lauterbach, ASAP	Closed.
HR1.16	WHC will schedule the 100-DR-1 and 100-HR-1 Work Plans for delivery to Ecology and EPA so that the agencies are not overloaded with critical path reviews. Action Merl Lauterbach.	Closed.
HR1.17	WHC will prepare a letter to Ecology requesting a position of RCRA Past Practices study generated wastes. Action Merl Lauterbach	Closed. Reference Action # GT.51
HR1.18	DOE will expedite completion of the integration document, Lessons Learned, so that it will be available for all involved parties.	Closed. This item has been moved to General topics, item # GT.58 due to its applicability to all units.